ewt®

Installation and Operating Instructions

Hydronic Base Unit Heater model EWBU20

Important Safety Advice

READ THESE INSTRUCTIONS BEFORE USE

- If the appliance is damaged, check immediately with the supplier before installation and operation.
- Leave the appliance disconnected from the voltage supply until it is commissioned.
- **DO NOT USE THIS HEATER IN THE IMMEDIATE SURROUNDINGS OF A BATH, A SHOWER OR A SWIMMING POOL.**
- **THIS HEATER MUST NOT BE LOCATED IMMEDIATELY BELOW A FIXED SOCKET OUTLET OR CONNECTION BOX.**
- **DO NOT COVER** or obstruct in any way the heat outlet grille located at the front of the heater. Overheating will result if the heater is accidentally covered.
- **I**f young children, the aged or infirm are likely to be left in the vicinity of the heater, we advise that adequate precautions should be taken to ensure that contact with the heater is avoided and objects cannot be inserted into the product.
- **Do not** use this heater in areas where excessive dust exists.
- **Do not** touch or obstruct the grille area when the heater is operating.

Introduction

This heater has been designed for fitting in the space behind the plinth of floor standing kitchen units or other fitted furniture units. It is recommended that the heater is not installed under cupboards used for storing perishable goods. It can be accommodated in plinths with a minimum height of 120 mm, and is suitable for cupboards of 475 mm width and above.

This heater may be fitted in place of or in addition to existing radiators. Using the hot water from the central heating system and a powerful electric fan it will produce an average 2.0 kW of heat into the room.

The heat output may be increased or decreased by selecting either the boost speed switch or the normal speed switch located under the Winter / Summer switch.

Installation instructions

The heater is more easily fitted during the installation of new furniture units, or on existing furniture units if they can be temporarily moved from their position against the wall. If an existing furniture unit cannot be moved, then it may be necessary to remove the back of the unit in order to gain access to carry out the wiring installation.

Before installing the unit consider the location with respect to the following:

- The electrical supply and cable length
- Position of system pipework and flexible hose length.
- Position the heater to deliver heat effectively without causing personal discomfort from overheating while standing at work surfaces etc.
- Minimum plinth height of 120 mm and minimum furniture width of 475 mm.

Central heating system design

1. When fitting the appliance onto a central heating system check that the boiler is capable of delivering extra heat into the appliance by resizing the system. The appliance will add an average of 2 kW (6,830 Btu/Hr) onto the boiler sizing.
2. Due to the low water content of the heat exchanger in the appliance compared to a panel radiator in the system, an adequate flow of water should be maintained to compensate for rapid cooling of the water as it passes through the exchanger i.e. maximum efficiency is gained if the appliance is placed as near to the central heating pump as possible to give the maximum pressure head across the appliance.

Installation Procedure

Ensure that all packing items are removed (read any warning labels carefully). Retain all packing for possible future use, in the event of moving or returning the heater to your supplier.

1. Cutting the aperture in the plinth

Cut aperture in furniture unit plinth to dimensions shown. This must be positioned so that the minimum distance from the bottom of the aperture to the TOP surface of any floor covering is not less than 12 mm and not more than 25 mm.

If an overhang above the heater is greater than 75 mm, then a distance of at least 100 mm must be maintained between the overhang and the uppermost part of the heater.

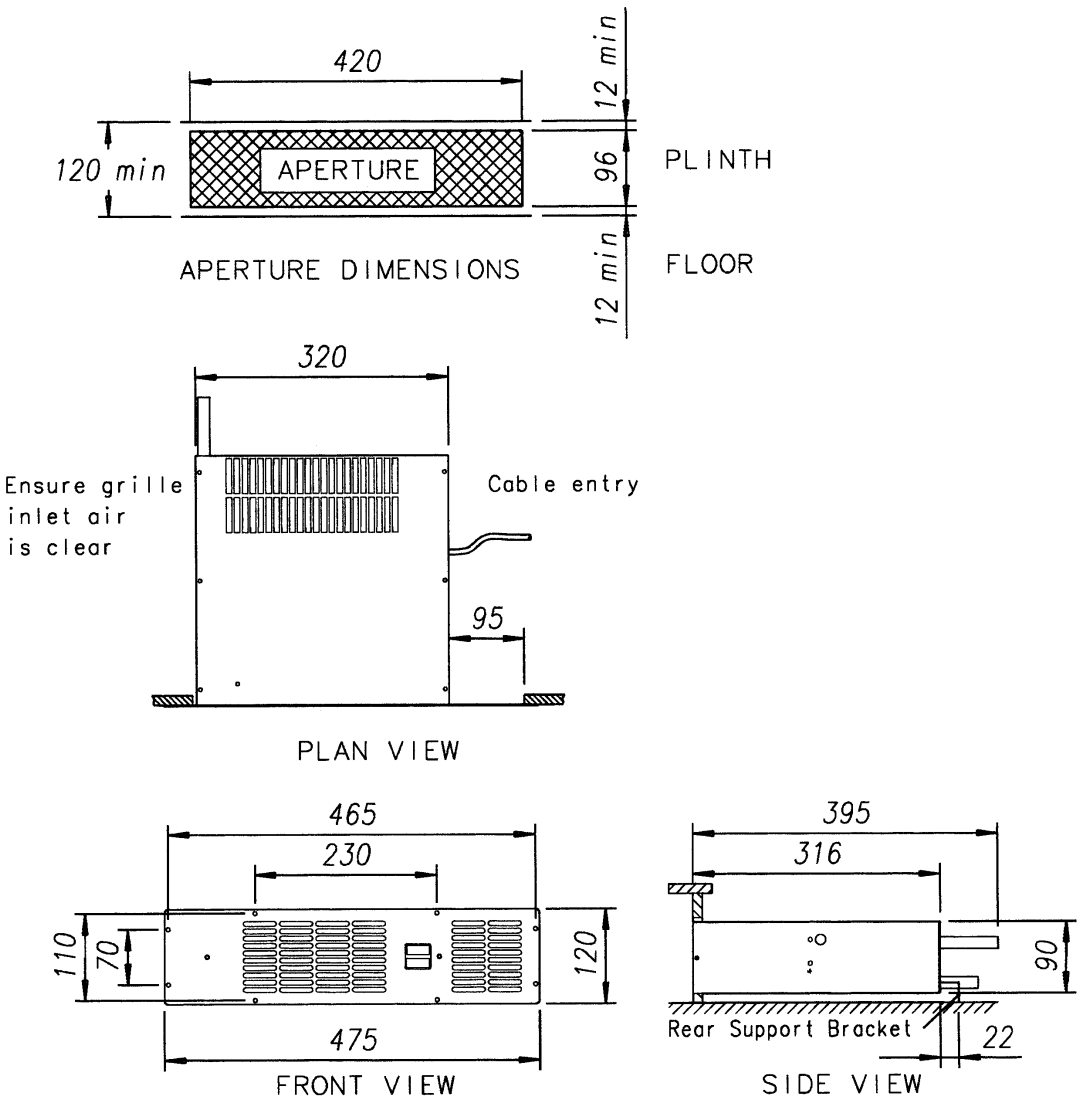


Fig. 1

All dimensions in millimetres

2. Water connections

WARNING: Do not connect to electricity supply when making water connections.

Connect the flexible pipes to the system flow and return pipes.

The appliance terminates in 15 mm pipe tails (top pipe flow – bottom pipe return). Connect the valve ends of the flexible pipe to the rear of the appliance. (Note: The direction of flow arrows on the valves are not significant in this application.)

Fill and vent the system and bleed the air out of the heat exchanger using the bleed screw provided (located at the top of the flow pipe)

Close the vent and check the appliance for water leaks. If any water escapes from the bleed screw ensure that it does not fall onto any electrical wiring or connections. After bleeding the appliance ensure that electrical controls are completely dry before connecting to the power supply.

3. Power supply connection

WARNING: THIS APPLIANCE MUST BE EARTHED.

This heater must be used on an AC~ supply only and the voltage marked on the heater must correspond with the supply voltage.

The installation of this appliance should be carried out by a suitably qualified individual and be in accordance with the current IEE wiring regulations.

Before undertaking installation work, ensure the electricity supply is disconnected from any relevant fixed wiring.

The appliance is fitted with 2 metres of flexible cable 3 x 0.75 mm^2 for electrical connection. The cable may be used to connect the heater to the fixed wiring of the premises through a suitable connection box. The supply circuit to the heater must incorporate a double pole isolating switch having a contact separation of at least 3 mm. The power supply cable should be routed through the plinth space to the connection box, ensuring that the cable is left with enough slack to allow removal of the appliance for maintenance. The cable must be protected form any sharp edges.

4. Fitting the rear support bracket

The heater is supplied with a rear support bracket. Fit to the back of the appliance with the two black screws supplied. Adjust the rear support bracket so that the vertical distance from the underside of the appliance to bottom of rear support bracket equals the vertical distance from the floor in the cupboard space to the bottom of the aperture opening. The slots in the rear support bracket allow it to be adjusted to the required height.

5. Marking the fixing positions

Slide the heater into position in the plinth aperture with the front edge just behind the line of the plinth..

Note: Ensure that the flexible pipes are not kinked and that the electrical cord is not in contact with hot surfaces.

Replace the plinth and bring the appliance forward so that the front edge slightly projects through the plinth.

Position the grille in front of the heater and fix with two screws (smaller screws).

Mark the eight fixing holes (two on each side, two on the top and two on the bottom). Remove the grille and drill 2 mm pilot holes

6. Mounting the heater into the plinth

Make sure that the heater is adequately supported and that the air inlet slots are not obstructed. Fix the grille to the heater and use the eight longer screws provided to secure the heater to the plinth.

Operation

1. Switch on the electricity supply to the heater.
2. Winter Use – for heating

   Set the Winter / Summer switch to ✱ (Winter position). Select either low or boost fan speed on the changeover switch depending on heat required.

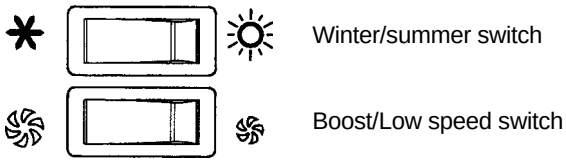


Fig. 2

3. Turn ON the central heating system.
4. As hot water reaches the heat exchanger the low limit thermostat should cut in and the fan will start to operate (set at 38°C)
5. Summer use – cool blow

   The hydronic base unit heater may be used in Summer to provide air circulation without heat.

   Set the Winter / Summer switch to (Summer position), and choose between low or boost fan speed.

   In this position the fan will run at the selected speed until manually reset.

   Insufficient heat output from heat exchanger may be caused by:

   - Airlock in the heat exchanger – (ISOLATE FROM ELECTRICAL SUPPLY)

     Remove grille and bleed the appliance as in the 'Water Connections' instructions (above)
   - Hot water temperature too low – the boiler thermostat may need increasing.
   - Bulk of the water circulating through the radiators – rebalance by closing back lockshields valves on radiators to increase water flow through the appliance.
   - Dirty heat exchanger.

Cleaning and User Maintenance

WARNING: DISCONNECT POWER SUPPLY before carrying out any maintenance.

General cleaning

External appearance can be maintained by wiping occasionally with a damp cloth; for stain removal, a weak soap solution can be applied, then wipe dry.

Internal cleaning and maintenance

From time to time it may be necessary to remove the heater from the furniture unit so that the interior of the heater and the heater compartment can be cleared of any accumulated dust or fluff.

To remove, unscrew the eight fixing screws and withdraw the appliance from the plinth. Remove the top cover and gently remove dust with a soft brush and vacuum cleaner, taking care not to damage the fan or heat exchanger.

Do not tamper with any electrical parts.

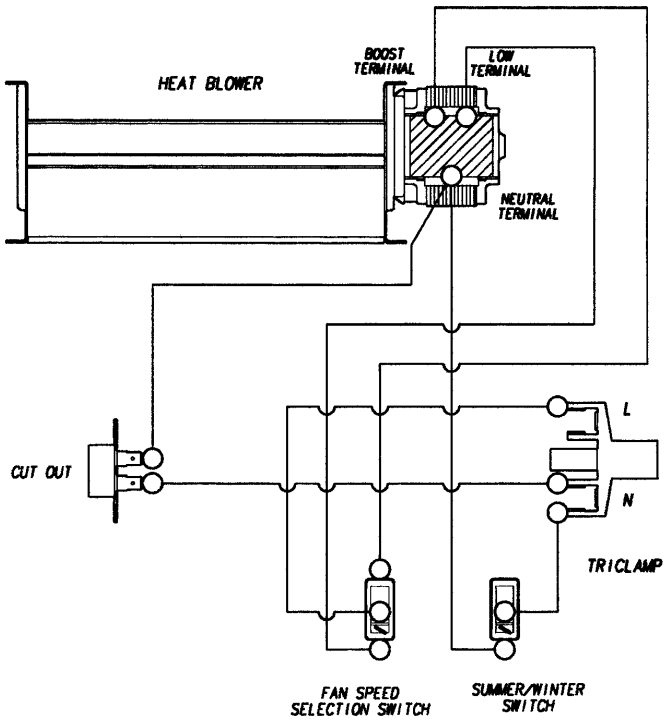
Remount the heater in the plinth ensuring the rear support bracket is still adjusted correctly, the flexible pipes are not kinked and the mains cable is not touching any hot or sharp surfaces.

After sales service

Your Hydronic Base Unit Heater is guaranteed for one year from date of purchase. We undertake to repair or exchange free of charge within this period, any part found to be defective due to a manufacturing fault.

Should you require after sales service, please get in touch with the supplier through whom you purchased the appliance, or the contact our customer services department on the number listed below.

Please do not initially return a faulty appliance or part of an appliance to us as this may result in transit damage and/or delay in providing service. Let us know your difficulty quoting the model number and series letter of the appliance. We will then take the appropriate action.



The electricity supply to the heater can now be switched back on.

Fig. 3 – Wiring Diagram

Specification subject to change without prior notice.

BEAB Approved

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